Tripti Singh

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EDUCATION

C.V Raman Global University – B.Tech in CSE (AI/ML), CGPA: 9.11　　　　　Oct 2021 – May 2025

EXPERIENCE

IIT Bombay – *R&D Intern, IEOR* 　　　　　Jan 2025 – Present
- Designed and implemented AR/VR simulations using Unity and WebXR for logistics decision support.
- Integrated LLMs and backend systems to deliver dynamic data-driven outcomes.
- Optimized 3D cargo simulation for real-time performance and usability across WebXR platforms.

Campus Network – *Product Intern* 　　　　　Jul 2024 – May 2025
- Collaborating on full-stack development for a peer-to-peer mock interview and networking platform.
- Driving UX improvements and scalability with cloud-native technologies.

IIT Kanpur – *Research Intern* 　　　　　May 2024 – Jul 2024
- Developed interaction modules in Unity using UltraLeap for hand tracking in VR.
- Contributed to cognitive science research focusing on spatial encoding.

Priyaqubit Pvt. Ltd – *AI/ML Intern* 　　　　　Jan 2023 – Jun 2023
- Engineered scalable AI/ML pipelines for healthcare applications.
- Implemented predictive models and monitored performance on real-time data.

PROJECTS

3D Cargo Loader Simulation *(Unity3D, WebGL, Optimization)*
- Built simulation to perform 360 Degree Loading, Unloading analysis for packaging industry.

Automatic Speech Recognition*(Nvidia Nemo, docker, Fastapi)*
- An Automatic Speech to Text Transcribing system using Nvidia Nemo stthindidemo model using Docker and FASTApi

Peripersonal Space Study in VR *(Unity3D, HTC Vive, UltraLeap)*
- Engineered VR interaction system for cognitive behavior research.

SKILLS

- **Programming Languages:** Python, Java, C#

- **Frameworks & Libraries:** TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy

- **Tools & Platforms:** Git, Docker, Kubernetes, Linux, AWS, Unity3D, WebGL

- **Databases:** MySQL, MongoDB

- **Other:** Agile, REST APIs, GitHub, JIRA, Data Structures, Algorithms

CERTIFICATIONS

- Diploma in Embedded and AI
- Google UI/UX Design Certificate
- Network Security: Coursera, IBM, CCNA Cisco

PUBLICATIONS

- **Sentiment Analysis on LinkedIn using TextBlob** – Published in IEEE Xplore. DOI
- **Immersive Learning in Ayurveda** – Conference paper published by Taylor & Francis.

LEADERSHIP AND RESPONSIBILITIES

- **Operations and Strategy Lead**, Incubator Team: Led startup ideation sessions, pitch mentoring, and execution.
- **Lead**, Google Developer Student Club: Conducted bootcamps, hackathons, and mentored peers in tech upskilling.